

$$20/20 = 100$$

**Foundations for College Algebra**  
**Spring 2017**  
**Quiz #2**

**SHOW ALL WORK QUIZ!**

1. Use the chart below to place a check mark indicating which sets the item on the left is a member of.

	N	W	Z	Q	Q'	R
$\sqrt{25}$	✓	✓	✓	✓		✓
-0.0001				✓		✓
$\frac{8}{0}$	<i>undefined</i>					
-2			✓	✓		✓
$5.\overline{56}$				✓		✓

2. Convert the following repeating decimal to a fraction:  $-0.\overline{27}$

$$\text{Let } x = -0.2727\dots$$

$$100(x = -0.2727\dots)$$

$$100x = -27.2727\dots$$

$$-x = -0.2727\dots$$

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$$99x = -27$$

$$x = -\frac{27}{99}$$

$$= -\frac{3}{11}$$

3. What is the key idea of the *Associative tool*?

*Association changes while the order of the objects remains the same. The result is the same.*

4. Convert  $\frac{5}{11}$  to decimal.

$$\begin{array}{r} 0.\overline{45} \\ 11 \overline{) 5.0} \\ \underline{-44} \phantom{0} \\ 60 \\ \underline{-55} \\ 5 \end{array}$$

$$0.\overline{45}$$

5. Use the *Distributive Tool* to clear parenthesis:  
 $-3(5x + 7y + 3a - 4)$

$$-15x - 21y - 9a + 12$$